

Program Description/Textbook or Print Instructional MaterialVendor: Pearson Education, Inc., publishing as Pearson Prentice Hall Web Address: www.phschool.comTitle: **Automotive Technology: Principles, Diagnosis, and Service**Author: Halderman and Mitchell Copyright: 2003ISBN: 0-13-183693-5 Course/Content Area: Automotive TechnologyIntended Grade or Level: 9-12 Readability Level: Not AvailableList Price: \$ 90.63 Lowest Wholesale Price: \$ 67.97Level of Accommodations (Level One, Two, or Three) Three

If Level Two or Three, please provide rationale for not meeting Level One Compliance. Pearson Prentice Hall
is unable to provide files in Levels One or Two due to the variety of page layout systems used to create the text.
These systems are not compatible with specialized formats such as XML or HTML.

FEATURES

DISCLAIMER: The features of each book or program were developed by the publisher and do not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

Content

This comprehensive text provides a general introduction to the discipline of automotive service, then guides students through the eight areas of ASE certification. Its unique emphasis is on diagnosis; diagnostic stories and tech tips are included to help students see how real problems are solved. Each new topic covers the parts involved plus the purpose, function, and operation. More illustrations in color and more line drawings are included. An additional chapter is given on audio systems. Chapters on electrical and electronic content as well as the latest automotive systems are covered. A workbook is correlated with NATEF task lists and a multimedia CD-ROM provides live action videos and animation.

Student Experiences

Students working in these materials will be stimulated by the real-world applications and the knowledge they can put to work immediately. Troubleshooting charts and ease of reference to topics will challenge students to put the ideas to the test as they become more skilled in the concepts.

Assessment

Students will be excited about the charts, the checklists, and the task lists that help them assess their skill level. They can also use the ASE sample tests to study and practice in real-time format in all eight test areas. Additional assessment materials are provided in the instructor package.

Organization

The 1344 page text is divided into 50 chapters each with objectives and presents the latest information on automotive systems. It accurately reflects the information and skills needed in the workplace.

Resource Materials

- **Gratis Items To Be Provided And Under What Conditions**

Free upon request, 1 per teacher user with a minimum purchase of 20 Automotive Technology Student Editions:

- ☞ Instructor's Manual
- ☞ Student Workbook

- **Available Ancillary Materials**

Website: www.prenhall.com, Student CD-ROM

RESEARCH DATA/EVIDENCE OF EFFECTIVENESS

DISCLAIMER: The research data and evidence of effectiveness was provided by the publisher and does not reflect the opinion of the State Review Team, State Textbook Commission, nor of the Kentucky Department of Education.

The materials guide students through the eight areas of ASE certification. The text and ancillaries have been reviewed carefully for content accuracy and type of materials used as well as the methods of instruction. Educators and experts in the field of automotive technology have given the materials a thorough review.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IT Transportation Career Cluster



Title: Automotive Technology Principles, Diagnosis, & Service \$67.97

Publisher: Prentice Hall, Inc.

Item Evaluated: Textbook

Copyright Date: 2003

Evaluator: Wilson/Tomlinson

Content Level: 9-12

Date of Evaluation 7/29/03

Level of Alternative Format

Level 1 – Full Compliance

Level 2 – Provisional Compliance

Level 3 – Marginal Compliance

This section completed by Exceptional Children Services

Overall Strengths and/or Weaknesses

Disclaimer: Comments on the strengths and/or weaknesses of each book, material or program were written by members of the State Textbook/Instructional Materials Review Team and reflect their opinions . They do not reflect the opinions of the State Textbook Commission nor the Kentucky Department of Education. In addition, the State Textbook/ Instructional Materials Review Team completed each evaluation form during the week of July 28-Aug. 1, 2003. In order to maintain the integrity of the of the review team's comments, editing was limited to spelling and punctuation.

Recommendations:

☒ Recommended by reviewers to State Textbook Commission

☐ Not recommended by reviewers to State Textbook Commission

Publisher's Explanation of Reviewer's Comments: By action of the State Textbook Commission, publishers are provided limited space, 150 words, to respond to what they may consider factual errors made by the reviewers in the evaluation.



Group V - Career/Technical Vocational/Practical Living Education Instructional Materials Evaluation Tool IT Transportation Career Cluster



Title: Automotive Technology Principles, Diagnosis & Service		Publisher Prentice Hall, Inc.
Technology Management Summary Data:	20 possible points	____13____ points earned
Technology Management Comments:		
Technology Presentation/Interface Summary Data:	40 possible points	____37____ points earned
Technology Presentation/Interface Comments:		
Content Summary Data:	84 possible points	____42____ points earned
45Content Comments:		
Instruction & Management Summary Data	52 possible points	____33____ points earned
Instruction & Management Comments:		
Organization & Structure Summary Data	36 possible points	____36____ points earned
Organization & Structure Comments:		
Resource Material Summary Data	40 possible points	_____ points earned
Resource Material Comments:		



Group V - Career /Technical & Vocational/Practical Living Electronic Instructional Media Review Form



Stand Alone/Independent or Integrated Software for IT Transportation Career Cluster

Equipment (circle or change fill color)	Grade Level (circle or change fill color)	Audience (circle or change fill color)	Format (circle or change fill color)	Cost _____	
Windows	Primary	Individual	Stand Alone/Independent	_____ single copy	_____ site license
Macintosh	Intermediate	Small Group	Integrated	_____ network version	_____ school version
CD-ROM	Middle	Large Group	Supplemental	_____ lab pack of _____ copies	_____ online
DVD	High		In lieu of basal test		
Sound					
Other					

If other, explain _____

Type of Software: Check all that apply	<input type="checkbox"/> Simulation	<input type="checkbox"/> Management	<input type="checkbox"/> Interdisciplinary	<input type="checkbox"/> Problem Solving	<input type="checkbox"/> Tutorial
<input type="checkbox"/> Exploratory	<input type="checkbox"/> Creativity	<input type="checkbox"/> Drill and Practice	<input type="checkbox"/> Critical Thinking	<input type="checkbox"/> Utility	<input type="checkbox"/> Other:

Rating Scale:	3—Some of the time	1—None of the time
4—All or the time	2—Minimally	0— Not applicable

Management	Rating
Allows customizing for individual learning needs.	4
Allows students to exit and resume at a later time.	1
Keeps a students performance record, where needed.	1
Allows control of various aspects of the software (e.g., turning sound off).	4
Allows for printed reports.	3
Comments:	Total
	13

Presentation/Interface	Rating
Presents material in an organized manner.	4
Has consistent, easy-to-use, on-screen instructions.	4
Has developmentally correct presentation format.	4
Adapts to different learning environments (learning styles/multiple intelligences, etc.)	3
Accessible for special needs students.	3
Runs smoothly, without long delays.	4
Presents easy-to-view text and graphics.	4
Presents easy-to-hear and understand sounds.	4
Avoids unnecessary screens, sounds, and graphics.	4
Provides immediate, appropriate feedback.	3
Comments:	Total
	37

Content—IT Transportation Career Cluster	Rating
Brake Systems/Lab	4
Automatic Transmission/Lab	4
Manual Transmission/Lab	4
Engine Repair/Lab	4
Computer Systems & Diagnosis/Lab	4
Basic Automotive Electronics/Lab	4
Electrical Systems/Lab	4
Introduction to Auto Body	0
Industrial Safety	4
Painting and Refinishing/Lab	0
Non-Structural Analysis and Damage Repair/Lab	0
Structural Analysis and Damage Repair/Lab	0
Mechanical Concepts	4
Fluid Power/Lab	4
Fuel Injection/Lab	4
Introduction to Small Engine Repair	0
Basic Small Engine Theory/Lab	0

Instruction and Assessment	Rating
Identifies a Sense of Purpose	3
Builds on Student Ideals	3
Engages Students	4
Develops Computer Maintenance Ideas	0
Promotes Student Thinking	4
Assesses Student Progress	3
Enhances The Learning Environment	4
Reading level is appropriate for interest and ability level of intended student group; level remains consistent throughout.	4
Commonwealth Accountability Testing System (CATS) "like" Assessment is provided	4
Variety of Assessments (diagnostic, formative, summative, open response, multiple choice, individual, small group, oral, demonstrations, presentations, self and peer performance, portfolio prompts) is included.	4
Includes activities and opportunities for integration of technology.	4
Reflects researched-based practices (e.g. hands-on activities, technology, problem-solving situations)	4
Differentiation techniques and activities suggested.	4
Comments:	Total 45

Rating Scale:	3 – Some potential for learning	1 - Not present
4 – High potential for learning	2 – Little potential for learning	0 – Not applicable

Organization and Structure	Rating
Organization is logical and allows for spiraling of content.	4
Vocabulary and key terms are clearly defined and easily accessible within each lesson.	4
Visual illustrations (e.g. graphs, charts, models) and examples are clearly presented and content-related.	4
Illustrations and language reflect diversity (e.g. racial, ethnic, cultural, age, gender, disabilities).	1
Legible type, length of lines, spacing, and page layout and width of margins contribute to overall appearance and use.	4
Student materials seem durable and conducive to daily use.	4
Includes sufficient glossary, index and appendices.	4
Employs accurate grammar and spelling	4
Organization of material can be effectively used with Standards Based Units, Core Content and Program of Studies.	4
Comments:	Total 33

Resource Materials	Rating
Teacher materials coordinate easily with student materials (e.g. additional resources included at point of need, student pages shown, integration of technology indicated)	4
Activities are included that adapt to the various learning styles, intelligences, and interest/ability levels.	3
Extension activities including adaptations and accommodations for students with special needs.	1
Resources provide objectives, background information, common student errors, hints, advice for lesson implementation and real-world connections, connections with career and/technology and references (e.g. solution manuals, study guides)	3
Suggestions are made for integration of themes and /or interdisciplinary instruction.	2
Integration opportunities suggested and examples given.	2
Teacher resources are available online.	4
Online resources available – Repeat of information in text.	4
Online resources available – Practice skills only.	4
Online resources available – New application materials.	4
Comments:	Total 36
Rating Scale:	2—Minimally
4—All or the time	1—None of the time
3—Some of the time	0— Not applicable